

REMARKS

In view of the above amendments, Applicants believe the pending application is in condition for allowance.

Claims 1-8 are now present in this application. Claims 1 and 8 are independent.

Amendments have been made to claims 1-4, 6 and 7, and claim 8 has been added. Reconsideration of this application, as amended, is respectfully requested.

Priority Under 35 U.S.C. § 119

Applicants thank the Examiner for acknowledging Applicants' claim for foreign priority under 35 U.S.C. § 119, and receipt of the certified priority document in the international application.

Information Disclosure Citation

Applicants thank the Examiner for considering the references supplied with the Information Disclosure Statement filed June 8, 2005, and for providing Applicants with an initialed copy of the PTO-SB08 form filed therewith.

Drawings

Since no objection has been received, Applicants assume that the drawings are acceptable and that no further action is necessary. Confirmation thereof in the next Office Action is respectfully requested.

Allowable Subject Matter

The Examiner states that claims 3-7 would be allowable if rewritten in independent form.

Applicants thank the Examiner for the early indication of allowable subject matter in this application. Most of the limitations of objected-to claim 3 have been added into independent claim 1, particularly the limitation of "a circulation pipe connected to the dust separating container, for re-sucking the dust separated in the dust separating container into the first dust separator," and therefore independent claim 1 should be in condition for allowance. Also, claim 2-7 depend, either

directly or indirectly, from independent claim 1, and are therefore allowable based on their dependence from claim 1 which is believed to be allowable.

Rejections Under 35 U.S.C. § 102 and § 103

Claim 1 stands rejected under 35 U.S.C. § 102(b) as being anticipated by Helming. Claim 1 stands rejected under 35 U.S.C. § 102(e) as being anticipated by Park et al. Claim 2 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Helming or Park et al. These rejections are respectfully traversed.

Complete discussions of the Examiner's rejections are set forth in the Office Action, and are not being repeated here.

With regard to the rejections of claim 1, while not conceding the appropriateness of the Examiner's rejections, but merely to advance prosecution of the instant application, Applicants respectfully submit that independent claim 1 has been amended to include most of the limitations of objected-to allowable claim 3, which are believed to place independent claim 1 into condition for allowance, along with dependent claims 2-7.

Independent claim 1 now recites a combination of elements in a dust separator of a cyclone type cleaner including a first dust separator connected to a suction pipe, for separating dust from air by a centrifugal force for the first time, a collecting container connected to a lower portion of the first dust separator and in which the dust separated in the first dust separator is collected; and a second dust separator connected to an upper portion of the first dust separator, for sucking air passed through the first dust separator and for separating dust from the air by a centrifugal force for the second time, wherein the second dust separator includes a dust separating container connected to the first dust separator by a connection pipe, and a circulation pipe connected to the dust separating container, for re-sucking the dust separated in the dust separating container into the first dust separator. Applicants respectfully submit that this combination of elements as set forth in independent claim 1 is not disclosed or made obvious by the prior art of record, including Helming or Park et al.

Helming is directed to an apparatus for heating cement powder or similar fine-granular materials. The apparatus of Helming is not for separating dust from air, but heating the dust-like

material. The dust-like material, supplied into the pipe 7d, flows through each of the cyclones 5, 4, 3, and 2, and enters the rotary kiln 1 through the chute 7. The exhaust gas leaving the rotary kiln 1 flows through the cyclones 2, 3, 4, and 5, and eventually enters the blower through the pipe 6d. The pipes connecting cyclones 2, 3, 4, and 5 are not structure circulating dust-like material. Furthermore, Helming at least fails to disclose a circulation pipe as set forth in amended claim 1.

Park et al. is directed to a cyclone dust collector comprising a primary collecting part 1, a secondary collecting part 2 inside of the primary collecting part 1, and a fan motor 4 for driving a fan 3. However, Park et al. at least fails to disclose a circulation pipe as set forth in amended claim 1.

Applicants respectfully submit that the combination of elements as set forth in independent claim 1 is not disclosed or made obvious by the prior art of record, including Helming or Park et al., for the reasons explained above. Accordingly, reconsideration and withdrawal of this rejection are respectfully requested.

With regard to dependent claim 2, Applicants submit that claim 2 depends from independent claim 1 which is allowable for the reasons set forth above, and therefore claim 2 is allowable based on its dependence from claim 1. Reconsideration and allowance thereof are respectfully requested.

Claim 8

Independent claim 8 has been added for the Examiner's consideration, and recites a combination of elements in a cyclone type cleaner comprising, a cleaner main body having a blower generating a suction force for sucking dust, a suction head mounted at the cleaner main body and having a suction opening through which dust is sucked, and a dust separator connected to a suction pipe which is connected to the suction head, wherein the dust separator includes a first dust separator connected to a suction pipe, for separating dust from air by a centrifugal force for the first time, a collecting container connected to a lower portion of the first dust separator and in which the dust separated in the first dust separator is collected, and a second dust separator connected to an upper portion of the first dust separator, for sucking air passed through

the first dust separator and for separating dust from the air by a centrifugal force for the second time, wherein the second dust separator includes a dust separating container connected to the first dust separator by a connection pipe, and a circulation pipe connected to the dust separating container, for re-sucking the dust separated in the dust separating container into the first dust separator. Applicants respectfully submit that this combination of elements as set forth in independent claim 8 is not disclosed or made obvious by the prior art of record.

Consideration and allowance of claim 8 are respectfully requested.

Conclusion

All of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider all presently outstanding rejections and that they be withdrawn. It is believed that a full and complete response has been made to the outstanding Office Action, and as such, the present application is in condition for allowance.

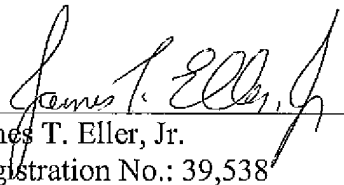
If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone James T. Eller, Jr., Registration No. 39,538, at (703) 205-8000, in the Washington, D.C. area.

Prompt and favorable consideration of this Amendment is respectfully requested.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Dated: July 9, 2008

Respectfully submitted,

By 
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